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## NOTICE TO USER

Thank you for purchasing a Rite-Hite product.

The RacKeeper Safety Gate is designed to provide protection for elevated work areas.

The English version of this manual shall prevail over any error in, or conflicting interpretation of, any translations.

Rite-Hite reserves the right to substitute and/or modify parts and drawings. If separate prints are included with the unit, they supersede those contained in the manual.

For best results, have this product serviced by an authorized Rite-Hite representative.

A Planned Maintenance Program (P.M.P.), customized to your specific operation is available and recommended. For a P.M.P., contact your local Rite-Hite representative or Rite-Hite technical support at (U.S.) 888-456-3625, (S.A.) +55 21 99616 4421, (E.U.) +49-5693 98700.

Manufactured by Rite-Hite Engineered Solutions Group, Inc.

## SAFETY

### Safety Identifications

#### **DANGER**

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Indique une situation dangereuse qui, si elle n'est pas évitée, peut entraîner la mort ou de graves blessures.

#### **WARNING/AVERTISSEMENT**

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

Indique une situation dangereuse qui, si elle n'est pas évitée, peut entraîner la mort ou des blessures graves.

#### **CAUTION/ATTENTION**

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Indique une situation dangereuse qui, si elle n'est pas évitée, peut entraîner des blessures légères à modérées.

#### **NOTICE**

Indicates a situation which can cause damage to the equipment, personal property and/or the environment, or cause the equipment to operate improperly.

**NOTE:** A note is used to inform you of important installation, operation, or maintenance information.

## SAFETY

### General

 **CAUTION/ATTENTION**

**Barricade the work area until the unit(s) have been completely installed.**

**Barricader la zone de travail jusqu'à ce que l'unité(s) ont été complètement installé.**

## INSTALLATION

### Preparation

#### Components

Before installation, verify all components were received. Notify your Rite-Hite representative if parts are missing or damaged.

#### Required Tools

1	9/16 in Open End Wrench
1	9/16 in Socket Ratchet Wrench
1	1/8 in Allen Wrench
1	Tape Measure
1	Bubble Level

#### Overview

To provide safety to the installer, install the RacKeeper components in this order:

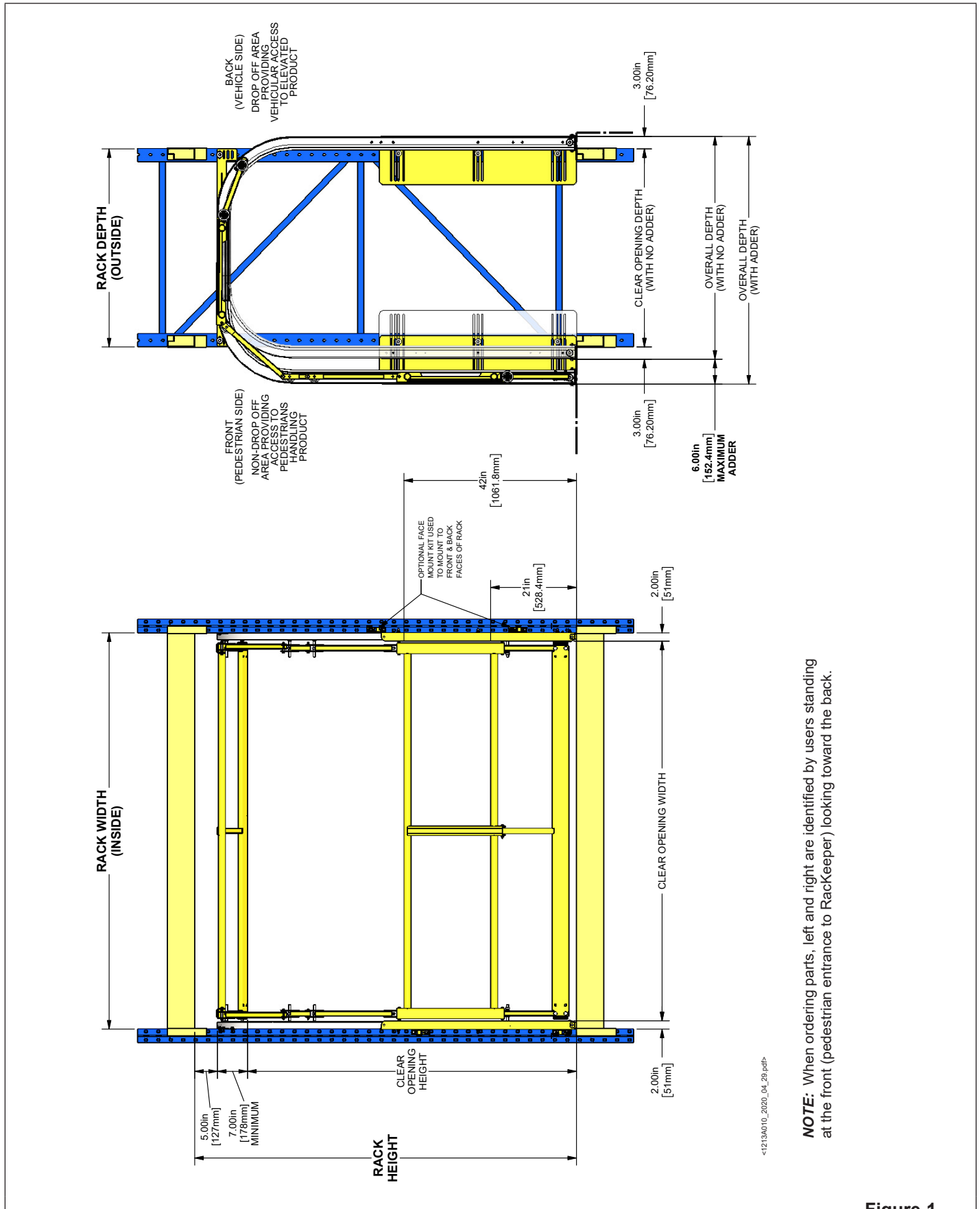
1. Back (drop off entrance to RacKeeper):  
Track Frames, toeboard, rail, and double links  
**NOTE:** The back track frames always project 3 in (76 mm) from the rack upright.
2. Front (pedestrian entrance to RacKeeper):  
Track frames, toeboard, and rail.  
**NOTE:** For a standard depth unit, the front track frames project 3 in (76 mm) from the rack upright. RacKeepers may be ordered with additional front depth (ADDER) allowing front projections up to 9 in (2288 mm).
3. Side Headers
4. Final Linkage Assembly/Remaining Links

If using kit go to **“Face Mount Kit (Optional)” (page 5)**.

If installing without the kit go to **“Back – Track Frames” (page 6)**.

# INSTALLATION

## Specifications



**NOTE:** When ordering parts, left and right are identified by users standing at the front (pedestrian entrance to RacKeeper) looking toward the back.

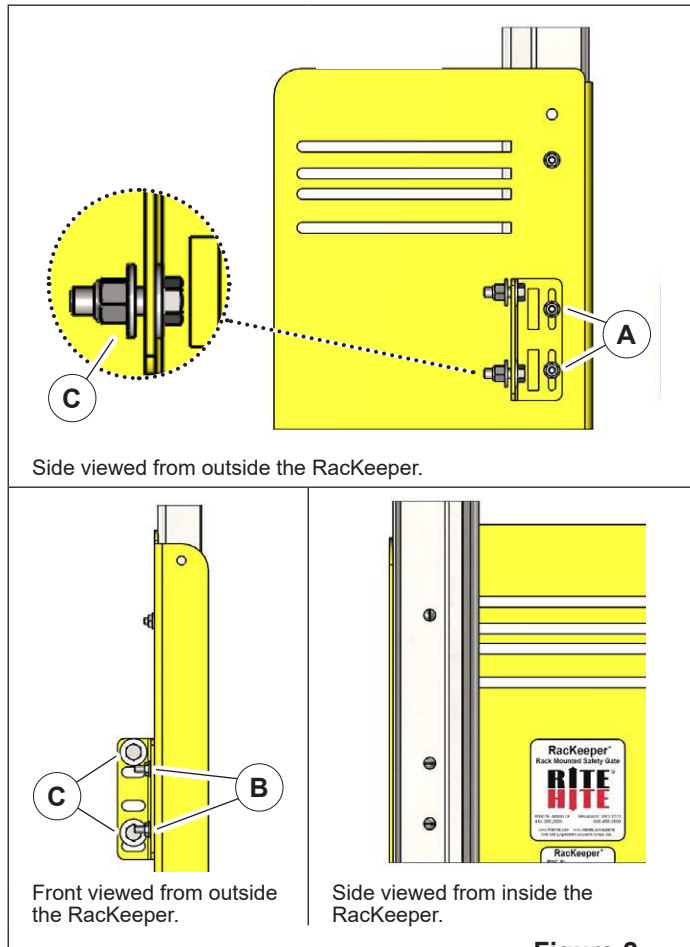
Figure 1

## INSTALLATION

### Face Mount Kit (OPTIONAL)

The kit allows for mounting to the front face of the rack when a warehouse rack manufacturer does not provide holes where the RacKeeper is typically mounted. The kit includes all the parts for side header and track frames.

#### No Front Depth Added

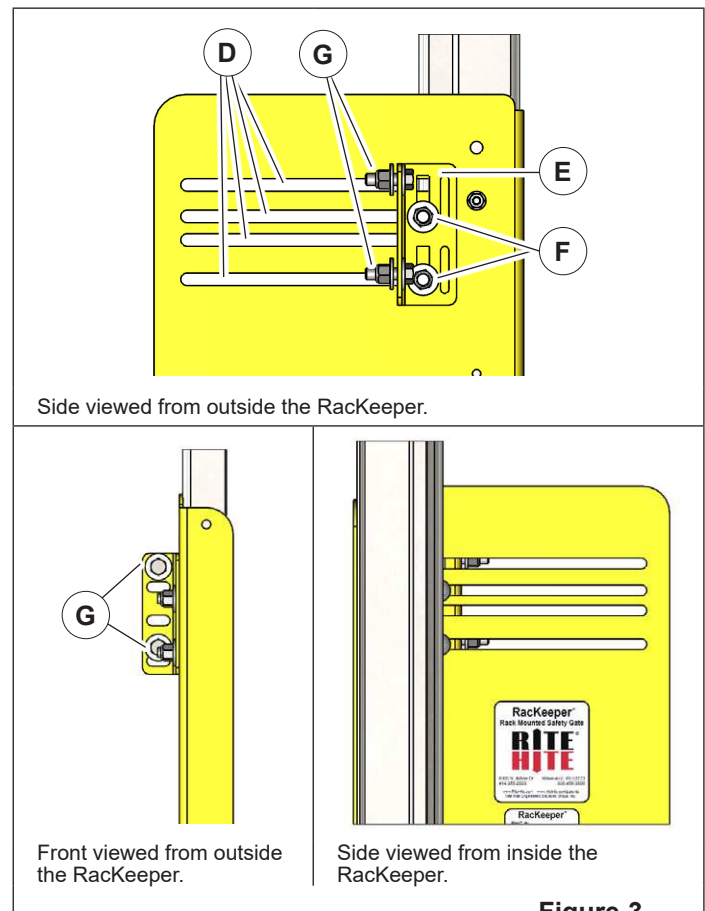


**Figure 2**

**NOTE:** This is always the installation method to face mount the back of RacKeeper.

1. Place the track frame on a flat surface with the track facing down.
2. Use the side frame as a template and drill (4) 0.266 in (6.8 mm) diameter holes (A) through track (2 top/2 bottom).
3. Install face mounts to track frames using 1/4 in x 1 in ribbed track bolts with bolt head inside track, secured with 1/4 in serrated nut (B).
4. Fasten the track frames to rack with 3/8 in x 1 1/4 in bolt, a washer under the head, and secure with a 3/8 in washer under a 3/8 in nylock nut (C).
5. Repeat this process on remaining track frame.
6. Make sure the projection of the track frames are the same on the right and left sides.

#### Front Depth Added

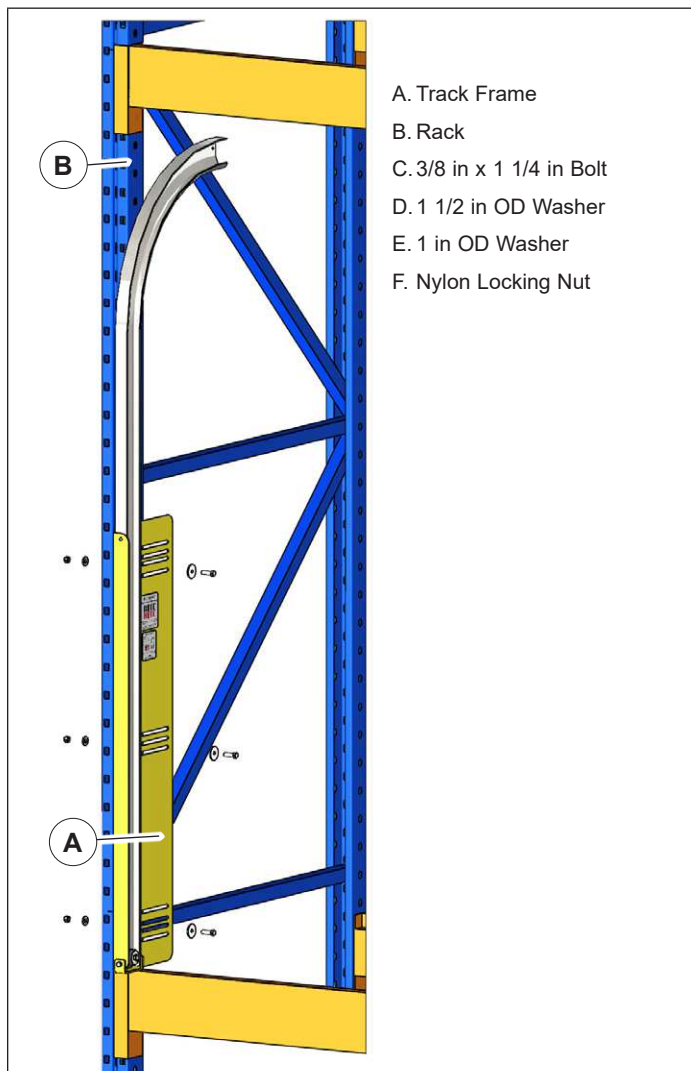


**Figure 3**

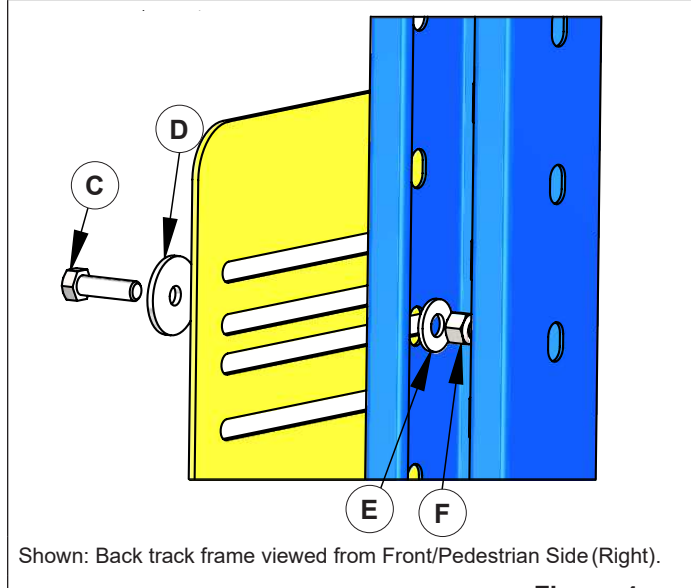
1. Locate existing holes in rack and determine the optimal slots (D) of track frames to use. Consider the available travel allowed with slots on face mounts.
2. Loosely install face mount brackets (E) to track frames with 3/8 in x 1 in carriage bolt and washer. With bolt head behind track frame, secure bolt with 3/8 in x 1 in washer under a 3/8 in nylock nut (F).
3. Fasten the track frames to rack with 3/8 in x 1 1/4 in screw, a washer under the head, and secured with a 3/8 in washer under a 3/8 in nylock nut (G).
4. Repeat this process on remaining track frame.
5. Make sure the projection of the track frames are the same on the right and left sides.

## INSTALLATION

### Back – Track Frames



Shown: Back/Drop Off Side viewed from Back/Drop Off Side.



Shown: Back track frame viewed from Front/Pedestrian Side (Right).

**Figure 4**

1. Bolt each of the 2 track frames (left and right) to the rack using (3) 3/8 in x 1 1/4 in bolts (C), with 1 1/2 in OD washers (D) under the hex head.
2. Secure the bolt with a 1 in OD washer (E) and nylon locking nut (F) inside the rack upright.
3. Use a bubble level to confirm the front face of the track frame is plumb.

**NOTE:** The back side of the RacKeeper track frame should always extend 3 in (76 mm) from the RacKeeper frame to the rack upright.

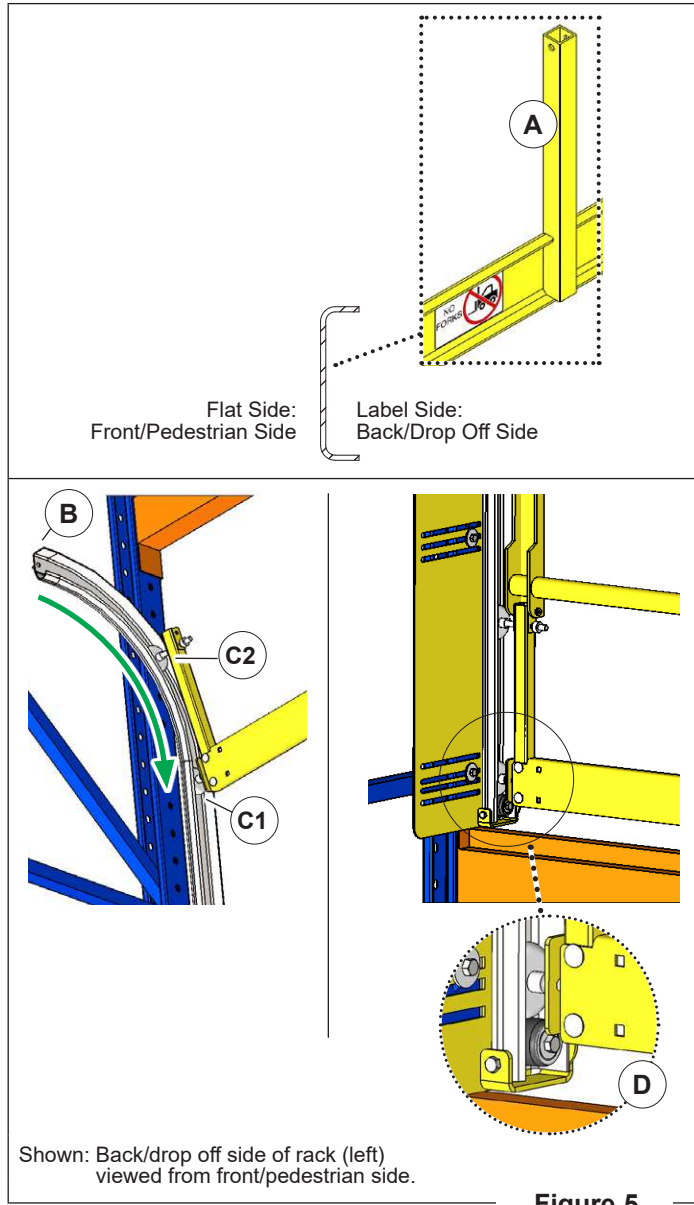
# INSTALLATION

## Back – Toeboard

NOTICE

Do not tighten hardware until components are properly aligned.

1. Orient the toeboard (A) so when installed and resting on the bumper:
  - The flat side of the toeboard faces to the front/ pedestrian entrance.
  - The side of the toeboard with the label faces the back/drop off side.
2. At the top ends of track horns (B), insert the bottom wheels (C1) of the toeboard.
3. Move the toeboard along the track and insert the top wheels (C2) of the toeboard into the track.
4. Move the toeboard down the track to it's resting point on the bumper (D).



**Figure 5**

## INSTALLATION

### Back – Rails, Double Links

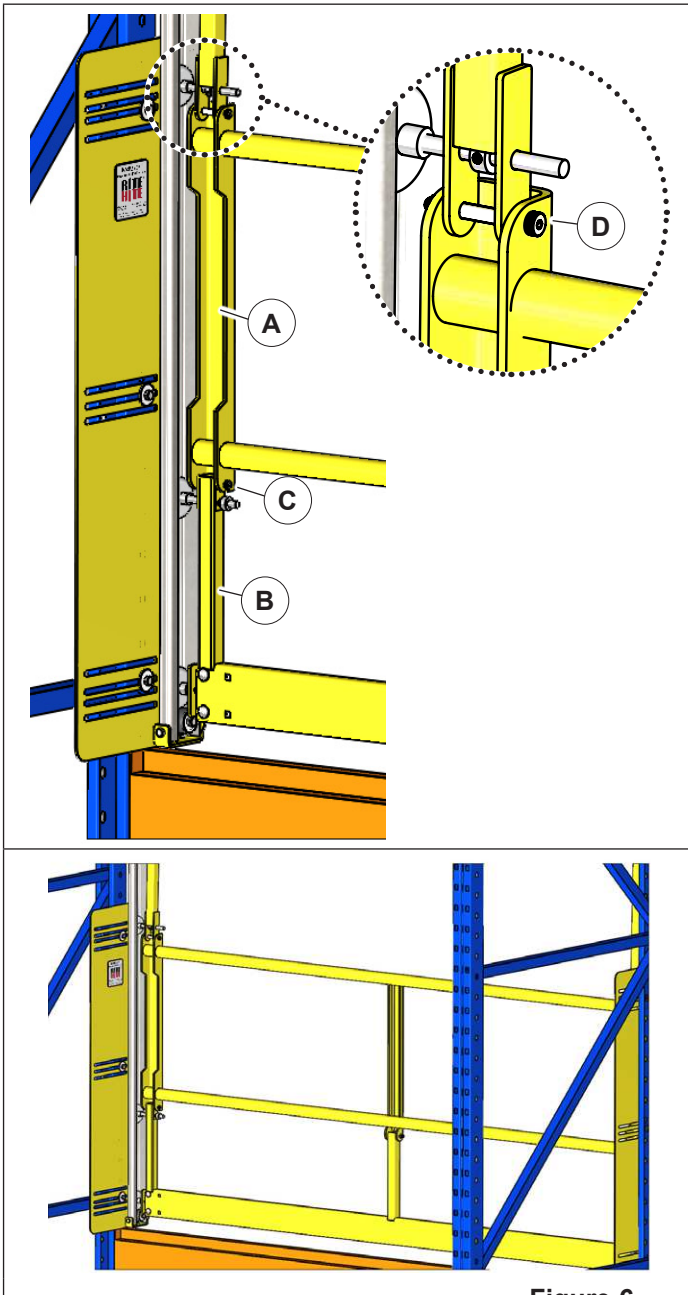
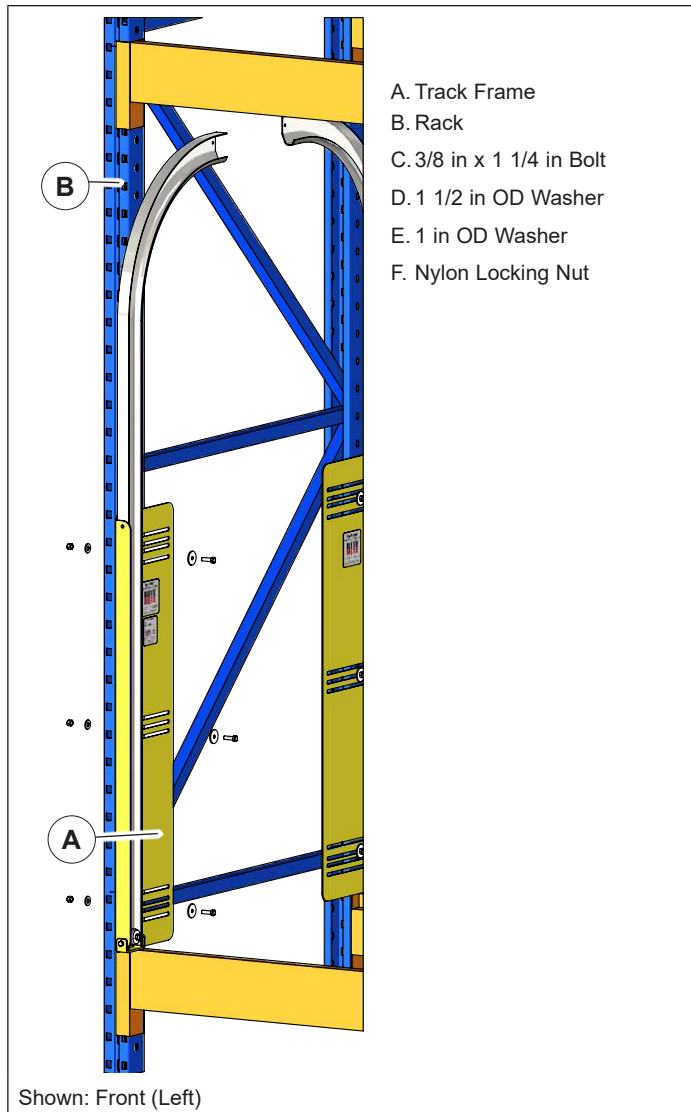


Figure 6

1. Position the rail so the bottom length (A) (with the 3 shoulder bolts) is toward the toeboard (B). Orient so the flat side of the vertical sections are facing out (towards the drop off).
  2. Remove the 3 sets of shoulder bolts and nuts (C) from the bottom length of the rail.
  3. Re-insert bolts and nuts to secure the bottom of the rail to the toeboard.
  4. Remove and discard 1 of the hex head bolts installed in 1 double link.
- NOTE:** There is no 'top' or 'bottom' to the double links.
5. Using the shoulder bolt and nut (from the top of the front rail), attach the double link on each side (D) to suspend the rail vertically.

# INSTALLATION

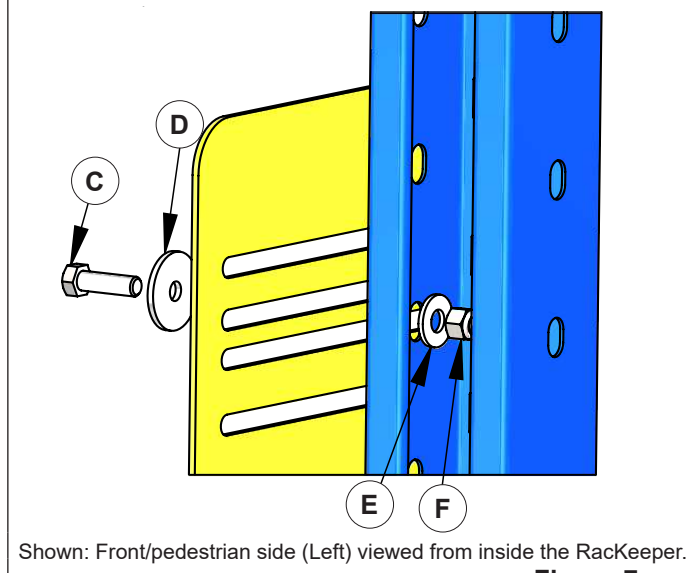
## Front – Track Frames



1. Bolt each of the 2 track frames (left and right) to the rack using (3) 3/8 in x 1 1/4 in bolts (C), with 1 1/2 in OD washers (D) under the hex head.
2. Secure the bolt with a 1 in OD washer (E) and nylon locking nut (F) inside the rack upright. Use existing mounting slots when possible.
3. Use a bubble level to confirm the front face of the track frame is plumb.

**NOTE:** The front track frames project 3 in (76 mm) from the rack upright for a standard depth unit.

RacKeepers may be ordered with an additional front depth (ADDER) allowing front projections up to 9in (2288 mm).



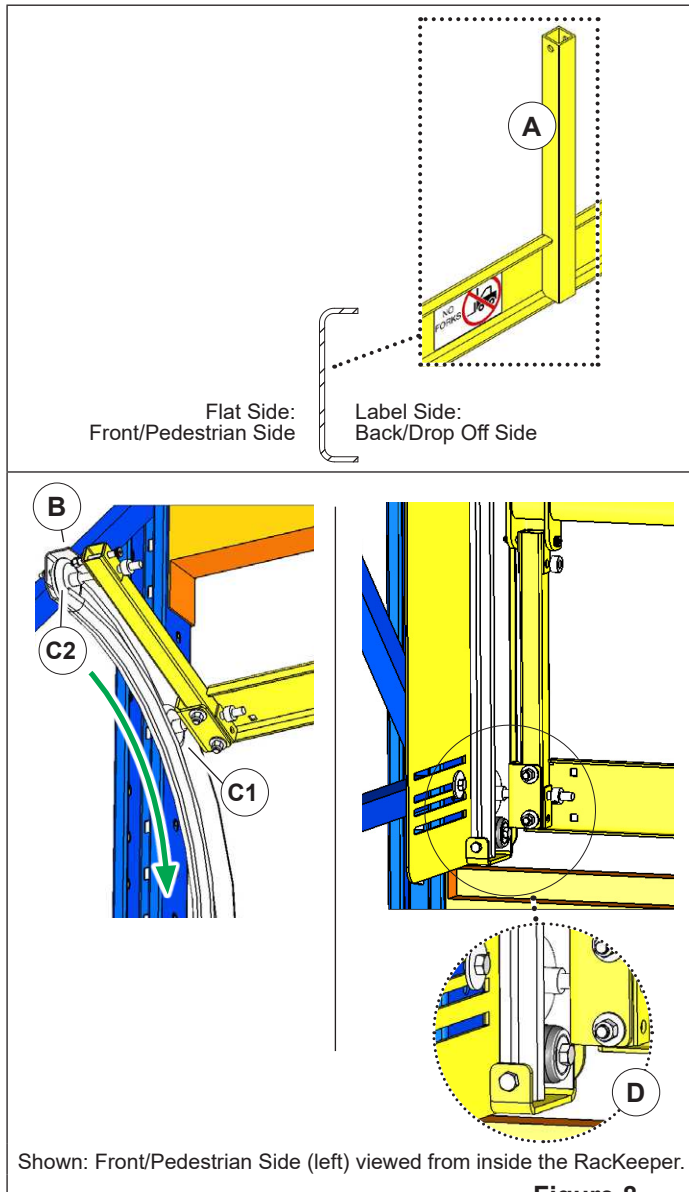
**Figure 7**

## INSTALLATION

### Front – Toeboard

#### NOTICE

Do not tighten hardware until components are properly aligned.

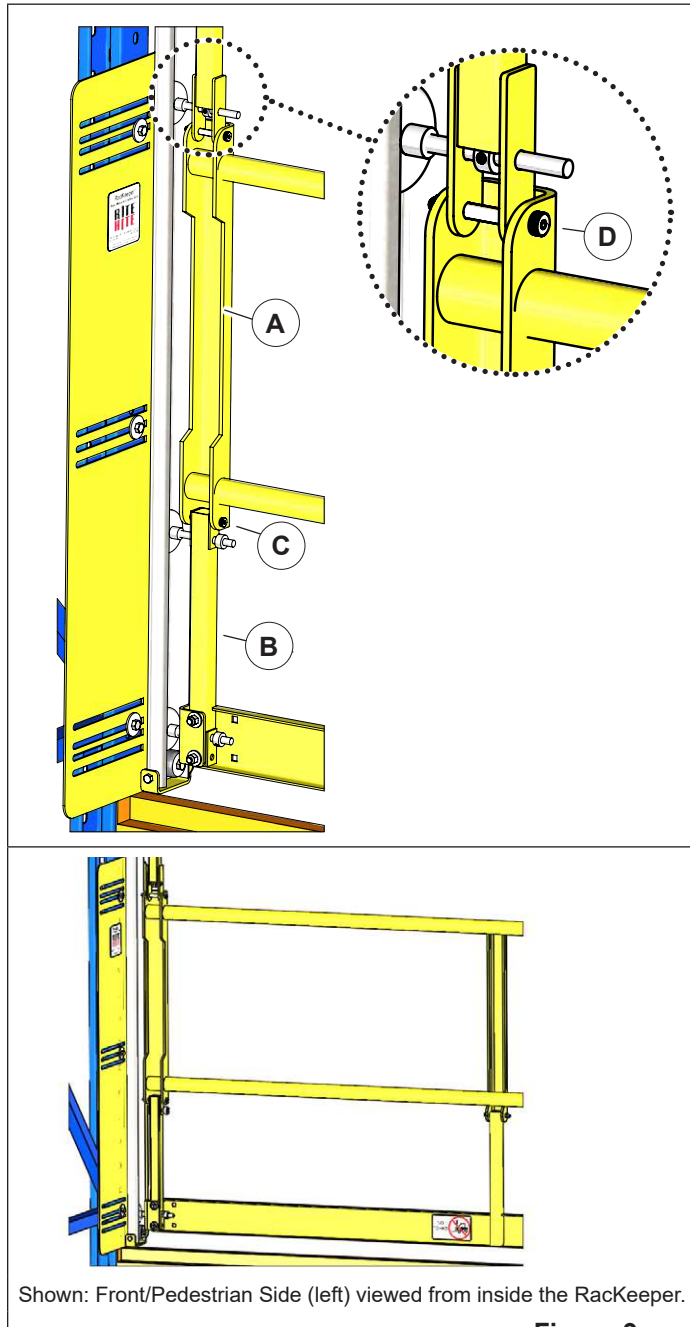


**Figure 8**

1. Orient the toeboard (A) so when installed and resting on the bumper:
  - The flat side of the toeboard faces to the front/pedestrian side.
  - The side with the label faces the back/drop off side.
2. At the top ends of track horns (B), insert the bottom wheels (C1) of the toeboard.
3. Move the toeboard along the track and insert the top wheels (C2) of the toeboard into the track.
4. Move the toeboard down the track to its resting point on the bumper (D).

## INSTALLATION

### Front – Rails



**Figure 9**

1. Position the rail so the bottom length (A) (with the 3 shoulder bolts) is toward the toeboard (B). Orient so the flat side of the vertical sections are facing out (towards the front of the RacKeeper).
2. Remove the 3 sets of shoulder bolts and nuts (C) from the bottom length of the rail.
3. Re-insert bolts and nuts to secure the bottom of the rail to the toeboard.
4. Using the shoulder bolt and nut (from the top of the front rail), attach the longest link (same size left and right) to the rail on each side (D) to suspend the rail vertically.

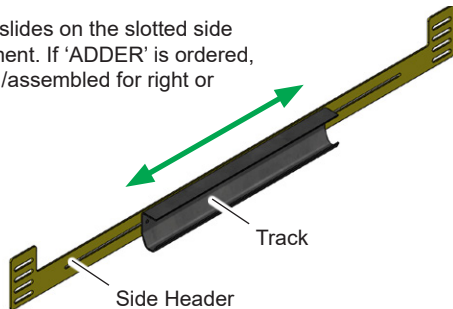
## INSTALLATION

### Side Headers

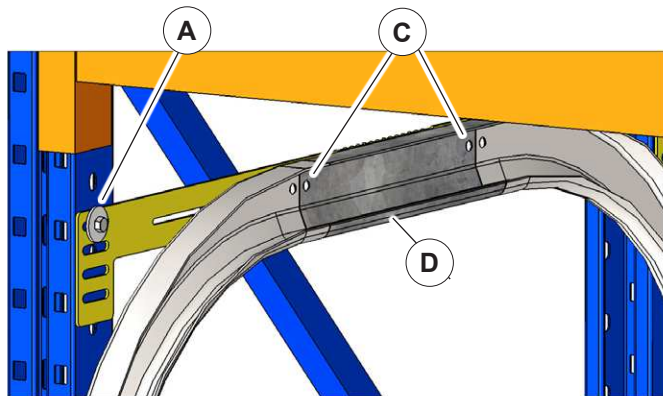
#### NOTICE

Do not tighten hardware until components are properly aligned.

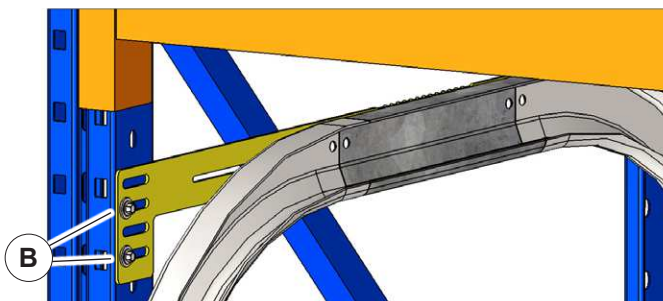
**NOTE:** The track slides on the slotted side header for adjustment. If 'ADDER' is ordered, tracks are shipped/assembled for right or left installation.



Shown: Header Inverted Orientation



Shown: Header Standard Orientation



Shown: Using Face Mount Kit

Figure 10

If the side headers need to be inverted to provide clearance for any obstruction:

1. Separate the 3 in track from the side header by removing 2 bolts and nuts.
2. Turn the side header upside down.
3. Position the 3 in track on the side header and refasten using 2 bolts and nuts.

To install the side headers:

1. Bolt the side headers to the rack using 3/8 x 1 1/4 in bolts, with 1 1/2 in OD washers under the hex head (A). Secure the bolt with a 1 in OD washer and nylon locking nut inside the rack upright.

**NOTE:** For installations that use the face mount kit, secure each corner of the rack (B) with hardware (supplied).

2. Slide the front frames with track to the desired position and loosely tighten the mounting hardware. Make sure the projection of the track frames are the same on the right and left sides.

#### Align and Secure Track

1. Loosen the side header 1/4 in track bolts and serrated hex flange washers (C) to create a smooth transition between the curved and straight tracks. The inside bottom of the 3 in track where the wheels travel (D) must be aligned.
2. Starting in one corner of the unit, align all of the track transitions.
3. Secure the curved tracks to the side headers in 4 places, using 1/4 in track bolt and serrated hex flange washers.
4. Tighten all of the mounting hardware.

## INSTALLATION

### Final Linkage Assembly/Remaining Links

Lay out the links on the floor to plan the installation:

- Keep the shortest lengths towards the middle of the complete linkage assembly.
- Linkages must be positioned in the same order on both the left side (front to back) and right side (front to back),
- The last link will connect the front RacKeeper rail to the back RacKeeper rail.
- The last RacKeeper link will connect the series of RacKeeper links from the front to the double link from **“Back – Rails, Double Links” on page 8.**

Install final linkage assembly/remaining links. Each side left/right (when facing front of RacKeeper) must be installed at the same time.

## OPERATION

### CAUTION/ATTENTION

**Only operate the RacKeeper from outside of the RacKeeper at the front/pedestrian entrance.**

**Do not use forks/forklift to operate the RacKeeper. If a floor level fork lift raises the back rails, the front rail movement could impact an unseen operator on the upper level.**

**Make sure the rails are toward the back when entering the racking platform inside the RacKeeper to protect the operator from a drop off hazard.**

**N'utilisez le RacKeeper que de l'extérieur du RacKeeper à l'entrée avant / piétonne.**

**N'utilisez pas de chariot élévateur / fourches pour faire fonctionner le RacKeeper. Si un élévateur à fourche au niveau du sol soulève les rails arrière, le mouvement du rail avant pourrait avoir un impact sur un opérateur invisible au niveau supérieur.**

**Assurez-vous que les rails sont vers l'arrière lorsque vous entrez dans la plate-forme de rayonnage à l'intérieur du RacKeeper pour protéger l'opérateur contre un risque de chute.**

Position yourself outside of the RacKeeper, on the front/ Pedestrian entrance, and at the center of the unit width.

Use two hands to pull up to move the rail system toward the drop off/back side.

Use the rails and toeboards to control the unit and prevent slamming.

Reverse the procedure to secure the pedestrian side of the RacKeeper.

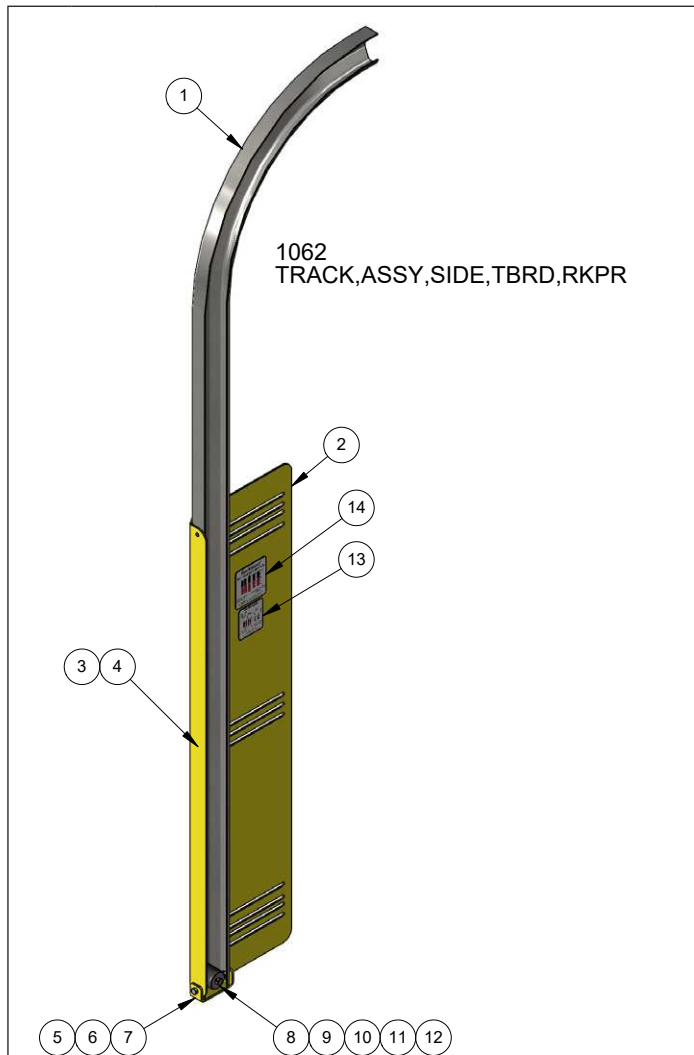
## MAINTENANCE

### Annual Planned Maintenance

TASK	INSPECT AND PERFORM THE FOLLOWING:
Frame	Inspect anchoring method and secure as required.
	Make sure frame is plumb and square.
	Confirm the track mounting hardware is tight.
	Confirm the front and side header mounting hardware is tight.
Rubber Bumpers	Confirm mounting hardware is tight.
	Inspect rubber bumpers and replace as required.
Wheels	Inspect all wheels.
	Check all wheel stem lock collar set screws and tighten as required.
	Allow $\approx$ 1/2 in (13 mm) between wheel stem shoulder and link collar.
	Confirm that the white nylon is properly seated on bearings.
Links	Confirm the wheel bearings are properly pressed on the wheel stem.
	Inspect all connecting hardware.
	Bolt thread must engage nylon in the lock nut.
Rails	Bolts must not bend link tabs when tightened.
	Components must be centered on the unit width so the wheels travel in the center of the track.

## PARTS

### Frame, Track

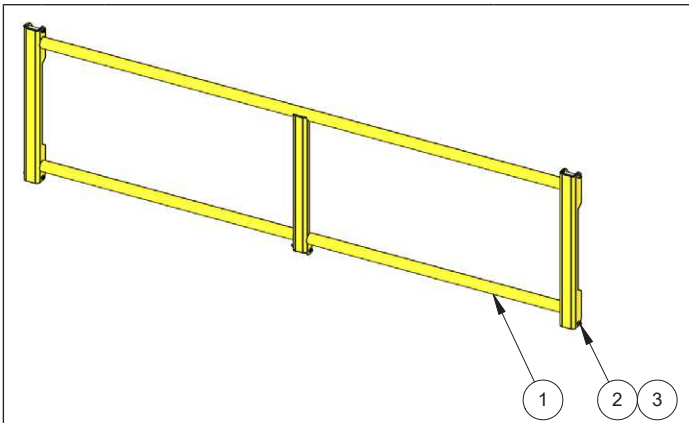


Shown: Left, Right is Opposite.

#	QTY	DESCRIPTION
1	1	TRK,CUT,3IN,90DEG,RKPR
2	1	FRAME,SIDE,TBRD,RKPR
3	3	NUT,HEX,FLANGE,SERRATED,1/4-20
4	3	BLT,TRK,RIBBED,1/4X5/8,ZNC
5	2	NUT,HEX,NYL LOCK,5/16-18,ZNC
6	2	SCR,HHMS,5/16-18X3/4,GR5,ZNC
7	1	BRKT,STOP,TRACK,RKPR
8	1	WSHR,FLAT,3/8X1-1/2X1/8,ZNC
9	1	SCR,HHMS,3/8-16X2-1/2,Z5
10	1	WSHR,FLAT,3/8X1X.063,ZNC
11	1	NUT,HEX,NYLCK,3/8-16,Z5
12	1	BMPR,RUBR,1.68ODX3/8IDX1-5/8
13	1	LABEL,BARRIER,RHC,RACKEEPER
14	1	LABEL,BARRIER,RACKEEPER

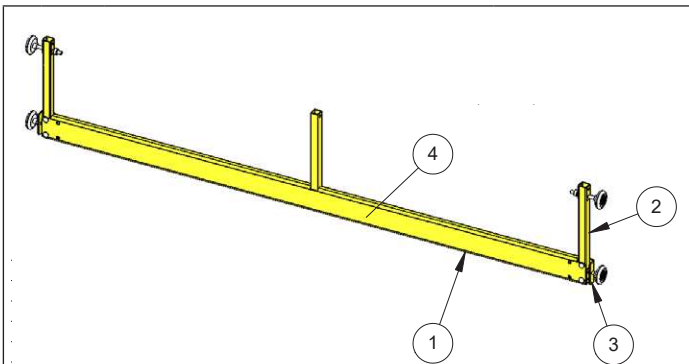
## PARTS

### Rail



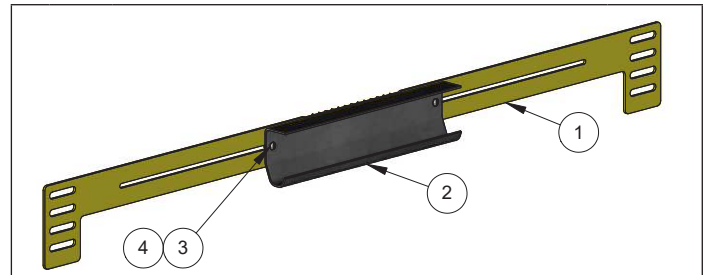
#	QTY	DESCRIPTION	PART #
-	1	RAIL,ASSY,FRONT,TBRD,RKPR	1058
1	1	RAIL,WLDMNT,FRONT,TBRD,RKPR	-
2	5	BLT,SHLDR,SCKT,3/8X5/16X2-1/2	-
3	5	NUT,HEX,NYLCK,5/16-18,Z5	-

### Toeboard



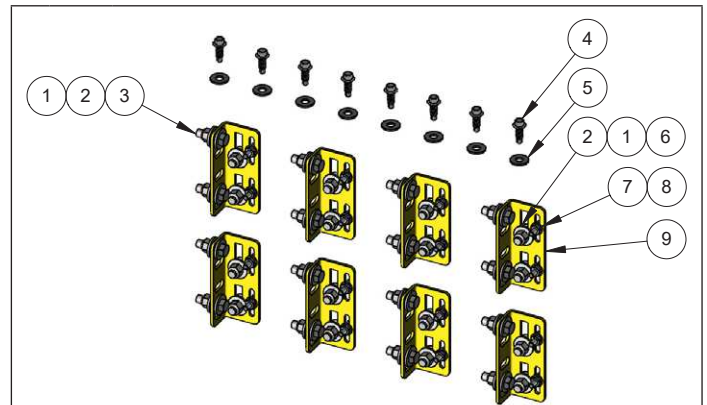
#	QTY	DESCRIPTION	PART #
-	1	TOEBOARD,ASSY,RKPR	1059
1	1	TOEBOARD,WLDMNT,RKPR	-
2	2	LINK,ASSY,TOE,STEEL,GTKPR	-
3	2	BRKT,ROLLER SPRT,RKPR	-
4	1	LABEL,NO FORK,RACKEEPER	-

### Side Header



#	QTY	DESCRIPTION	PART #
-	1	HEADER,ASSY,SIDE,TBBD,RKPR	1056
1	1	HEADER,SIDE,TBRD,RKPR	-
2	1	TRACK,3IN,SIDE HDR,CUT-TO-LNGTH,RKPR	-
3	2	BLT,TRK,RIBBED,1/4X5/8,ZNC	-
4	2	NUT,HEX,FLANGE,SERRATED,1/4-20	-

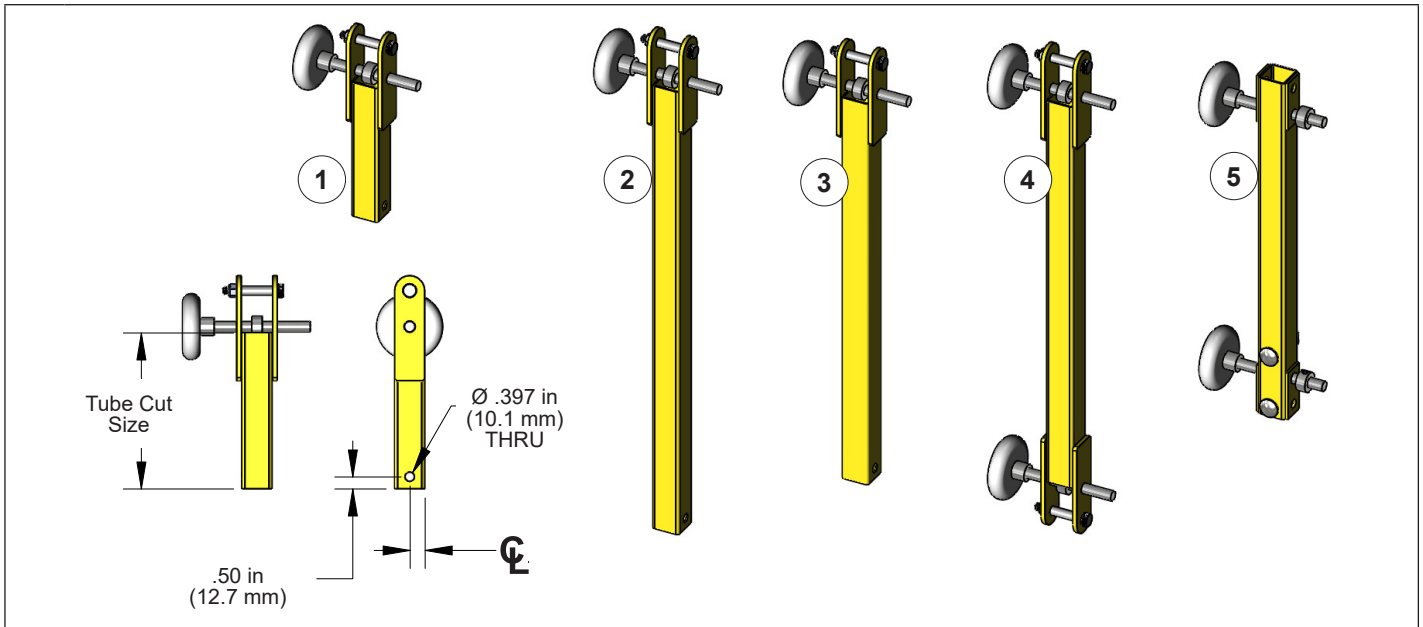
### Face Mount Kit



#	QTY	DESCRIPTION	PART #
-	1	KIT,FACE MOUNT,TBRD,RKPR	53760139
1	32	NUT,HEX,NYLCK,3/8-16,Z5	-
2	48	WSHR,FLAT,3/8X1X.063,ZNC	-
3	16	SCR,HHMS,3/8-16X1-1/4,Z5	-
4	8	SCR,HWHS,DR/TP,5/16x1,ZNC	-
5	8	WSHR,FLAT,5/16,ZNC	-
6	16	BLT,CARG,3/8-16X1,Z5	-
7	16	NUT,HEX,FLANGE,SERRATED,1/4-20	-
8	16	BLT,TRK,RIBBED,SLTD,1/4X1,ZNC	-
9	8	BRKT,MNT,FACE,TBRD,RKPR	-

## PARTS

### Links



#	DESCRIPTION	PART #
1	LINK,ASSY,LONG,STEEL,GTKPR(FIELD CUT)	54400042
2	LINK,ASSY,LONG,STEEL,GTKPR	54400042
3	LINK,ASSY,SHORT,STEEL,GTKPR	54400039
4	LINK,ASSY,DBL,STEEL	54400037
5	LINK,ASSY,TOE,STEEL,GTKPR	54400041





Rite-Hite Company, LLC and its affiliates (collectively "Rite-Hite") warrant that the Product sold to the Owner will be free of defects in design, materials and workmanship (ordinary wear and tear excepted) for the periods set forth below ("Limited Warranty").

One (1) Year(s) on all mechanical and electrical parts (non-prorated).  
 One (1) Year(s) labor, based on Rite-Hite approved travel and labor repair times.

### REMEDIES

**Parts:** Rite-Hite's obligations under this Limited Warranty are limited to repairing or replacing, at Rite-Hite's option, any part which is determined by Rite-Hite to be defective during the applicable warranty period. Such repair or replacement shall be Rite-Hite's sole obligation and the Owner's exclusive remedy under this Limited Warranty.

**Labor:** Rite-Hite will provide warranty service without charge for labor per the specified warranty period. Thereafter, a charge will apply to any repair or replacement under this Limited Warranty.

**CLAIMS** Claims under this Limited Warranty must be made (i) within 30 (thirty) days after discovery and (ii) prior to expiration of the applicable warranty period. Warranty period commences on the date of shipment. Claims shall be made in writing or by contacting the representative from whom the Product was purchased directly. Owner must allow Rite-Hite or its agent, a reasonable opportunity to inspect any Product claimed to be defective and shall, at Rite-Hite's option, either (x) grant Rite-Hite or its agent access to Owner's premises for the purpose of repairing or replacing the Product or (y) return of the Product to the Rite-Hite, F.O.B. Rite-Hite's factory.

**NOT WARRANTED** Rite-Hite does not warrant against and is not responsible for wear items such as fuses, batteries, bulbs, vision and seals. No implied warranty shall be deemed to cover damages that result directly or indirectly from: (i) the unauthorized modification or repair of the Product, (ii) damage due to misuse, neglect, accident, failure to provide necessary maintenance, or normal wear and tear of the Product, (iii) failure to follow Rite-Hite's instructions for installation, failure to operate the Product within the Product's rated capacities and/or specified design parameters, or failure to properly maintain the Product, (iv) use of the Product in a manner that is inconsistent with Rite-Hite's guidelines or local building codes, (v) movement, settling, distortion, or collapse of the ground, or of improvements to which the Products are affixed, (vi) fire, flood, earthquake, elements of nature or acts of God, riots, civil disorder, war, or any other cause beyond the reasonable control of Rite-Hite, (vii) improper handling, storage, abuse, or neglect of the Product by Owner or by any third party.

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